SA-WM500

SERVICE MANUAL

Ver 1.2 2004.09

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS
POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6 ohm loads, from 20 – 200 Hz; rated 150 watts, minimum RMS power, with no more than 0.7 % total harmonic distortion from 250 milliwatts to rated output.

System

Type
Active Subwoofer (magnetically shielded design)

Speaker unit
Woofer: 30 cm dia. (12 in.), cone type

Amplifier section
Continuous RMS output : (0.7%) 150W

Reproduction frequency range
20 Hz – 200 Hz

High frequency cut-off frequency
50 Hz – 200 Hz

Phase selector
NORMAL, REVERSE

Inputs

Input jacks
LINE IN: input pin jack
SPEAKER IN: input terminals

Output jacks
LINE OUT: output pin jack
SPEAKER OUT: output terminals

General

Power requirements
USA and Canada models: 120 V AC, 60 Hz
AEP, UK, MY, SP models: 230 V AC, 50/60 Hz
AUS model : 240V AC, 50/60 Hz
TW model : 110 V AC, 60Hz

Power consumption
120 W

Dimensions
Approx. 360 x 425 x 412 mm
(14 1/4 x 16 3/4 x 16 1/4 in.) (w/h/d)

Mass
18 kg (39.6 lb 1oz)

Supplied accessories
Foot pads (4)
Audio connecting cord (1 phono – 1 phono),
2 m (6 ft 6 1/2 in.) (1)
Speaker cords, 2.5 m (8 ft 2 1/2 in.) (2)

Design and specifications are subject to change without notice.

ACTIVE SUBWOOFER

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2004I02-1
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Audio Group
Published by Sony Engineering Corporation

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SAFETY CHECK-OUT
(US model)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth Ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

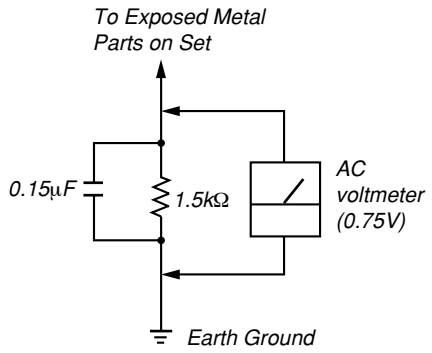

Fig. A. Using an AC voltmeter to check AC leakage.

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

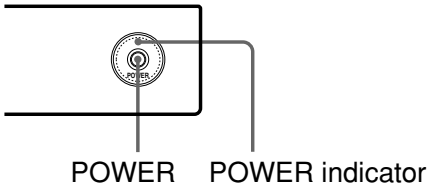
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

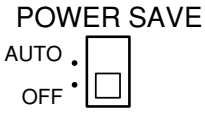
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

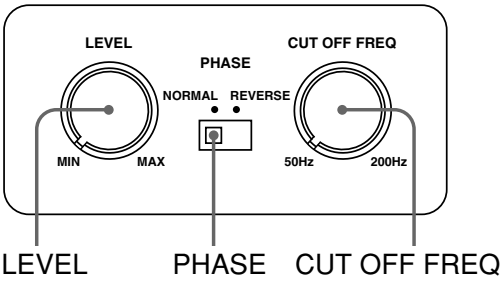
SECTION 1
GENERAL

This section is extracted from instruction manual.

• Location of controls







SECTION 2
DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For Printed Wiring Boards.
Note :

- ○——— : parts extracted from the component side.
- ●——— : parts extracted from the conductor side.
- ▬ : Pattern from the side which enables seeing.

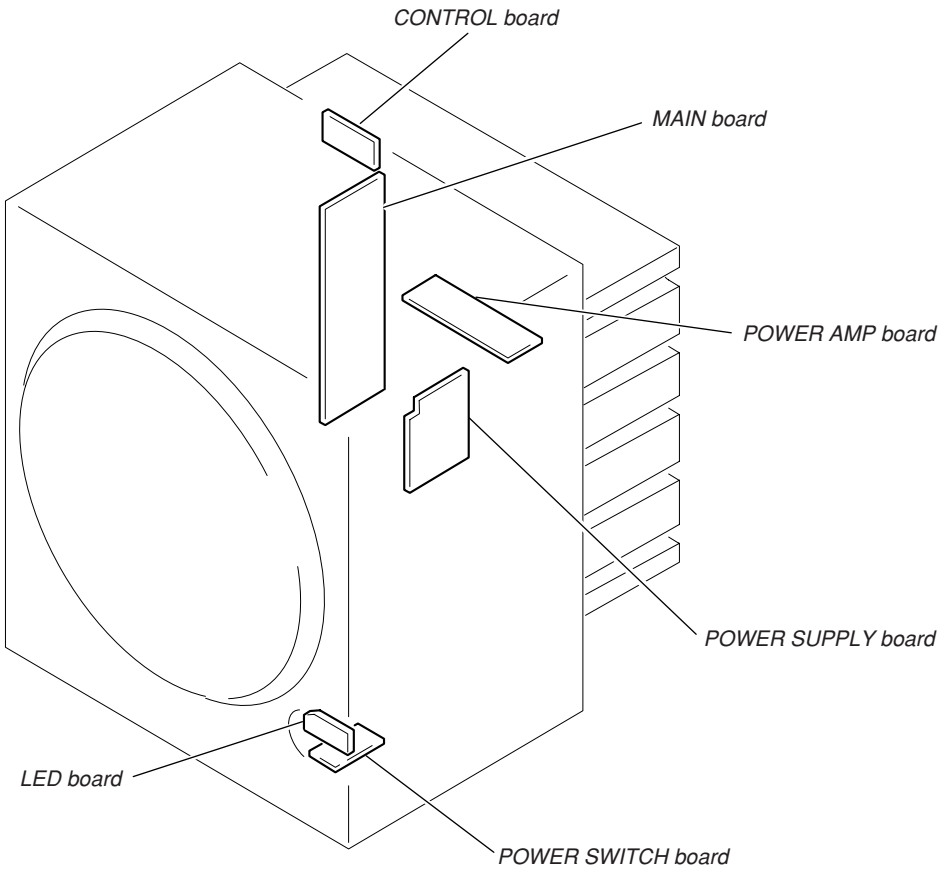
For Schematic Diagrams.
Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

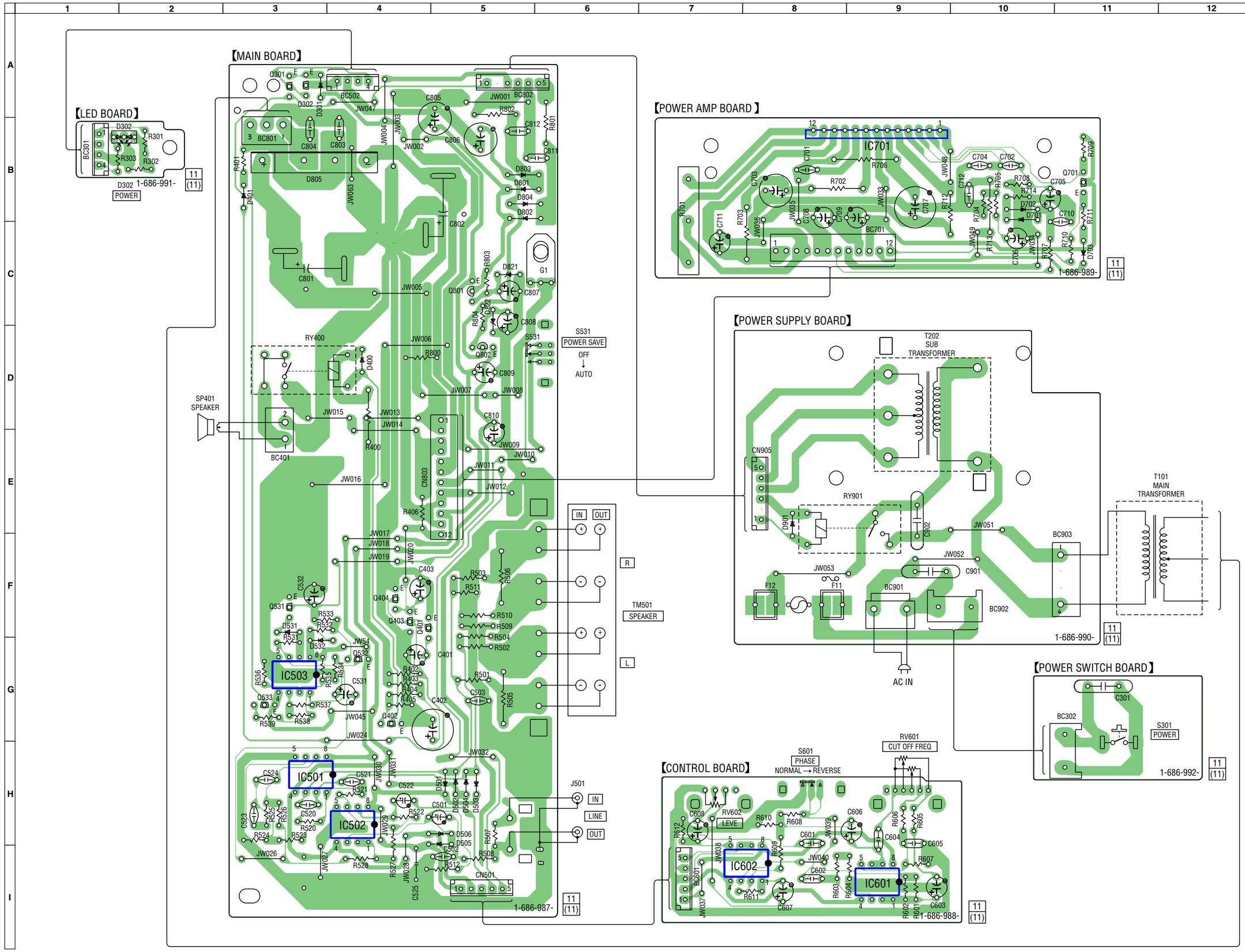
- ▬▬ : B+ Line.
- ▬ ▬ ▬ : B– Line.
- Voltages are dc with respect to ground under no-signal conditions.
- no mark : Power on
- Voltages are taken with a VOM (Input impedance 10 MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : AUDIO
- Abbreviation
  CND : Canadian model
  MY : Malaysia model
  SP : Singapore model
  AUS : Australian model
  TW : Taiwan model

2-1. CIRCUIT BOARDS LOCATION



2-2. PRINTED WIRING BOARDS

● See page 4 for Notes. ● See page 4 for Circuit Boards Location.

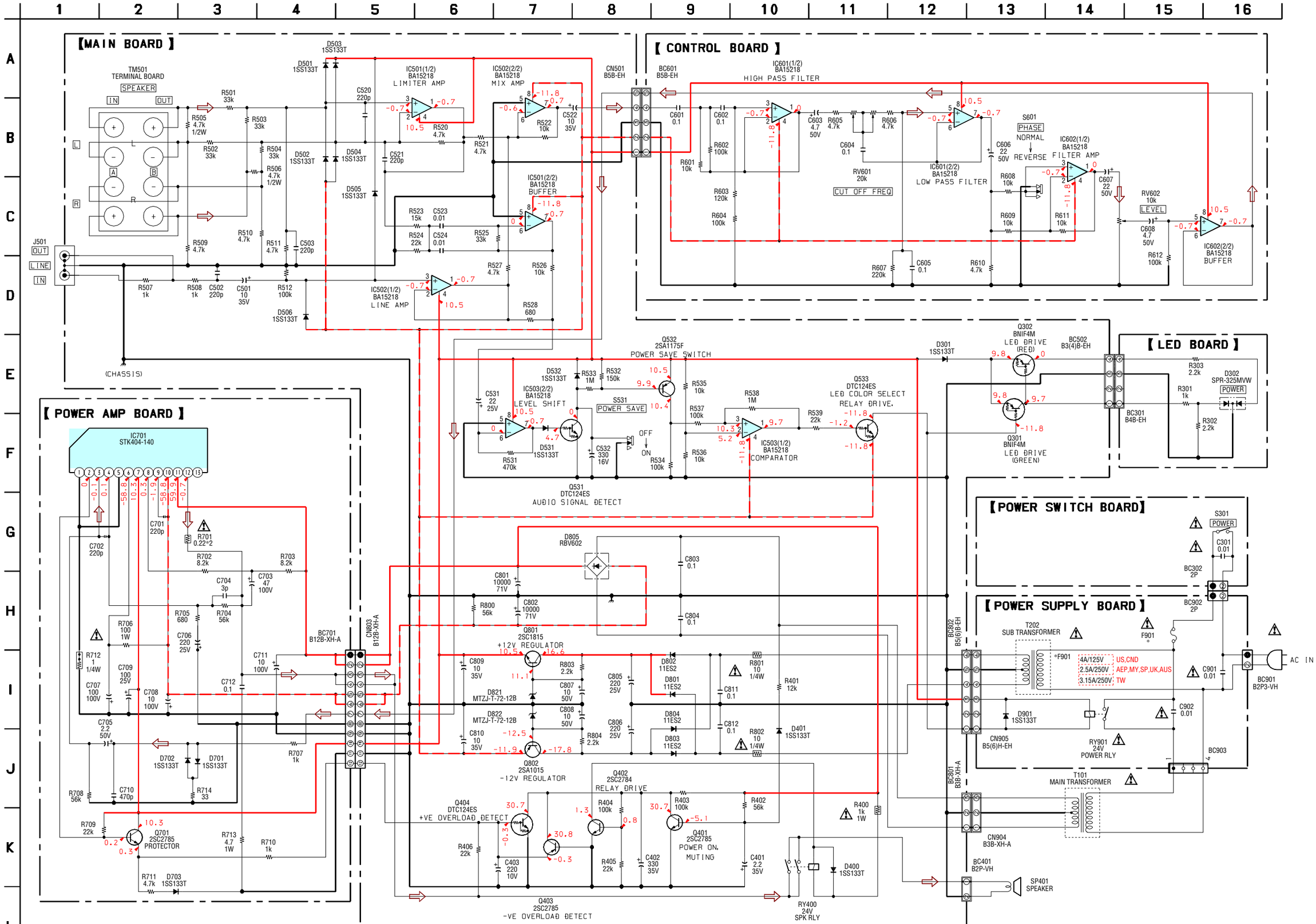


● **Semiconductor Location**

Ref. No.	Location
D301	A-3
D302	B-2
D400	D-4
D401	B-3
D501	H-5
D502	H-5
D503	H-5
D504	H-5
D505	H-5
D506	H-5
D531	F-3
D532	G-3
D701	B-10
D702	B-10
D703	C-11
D801	D-5
D802	D-5
D803	D-5
D804	D-5
D805	B-3
D821	C-5
D822	C-5
D901	E-8
IC501	H-3
IC502	H-4
IC503	G-3
IC601	I-9
IC602	I-8
IC701	B-9
Q301	A-3
Q302	A-3
Q401	F-4
Q402	G-4
Q403	F-4
Q404	F-4
Q531	F-3
Q532	G-4
Q533	G-3
Q701	B-11
Q801	C-5
Q802	D-5

2-3. SCHEMATIC DIAGRAM

● See page 4 for Notes.



SECTION 3
EXPLODED VIEWS

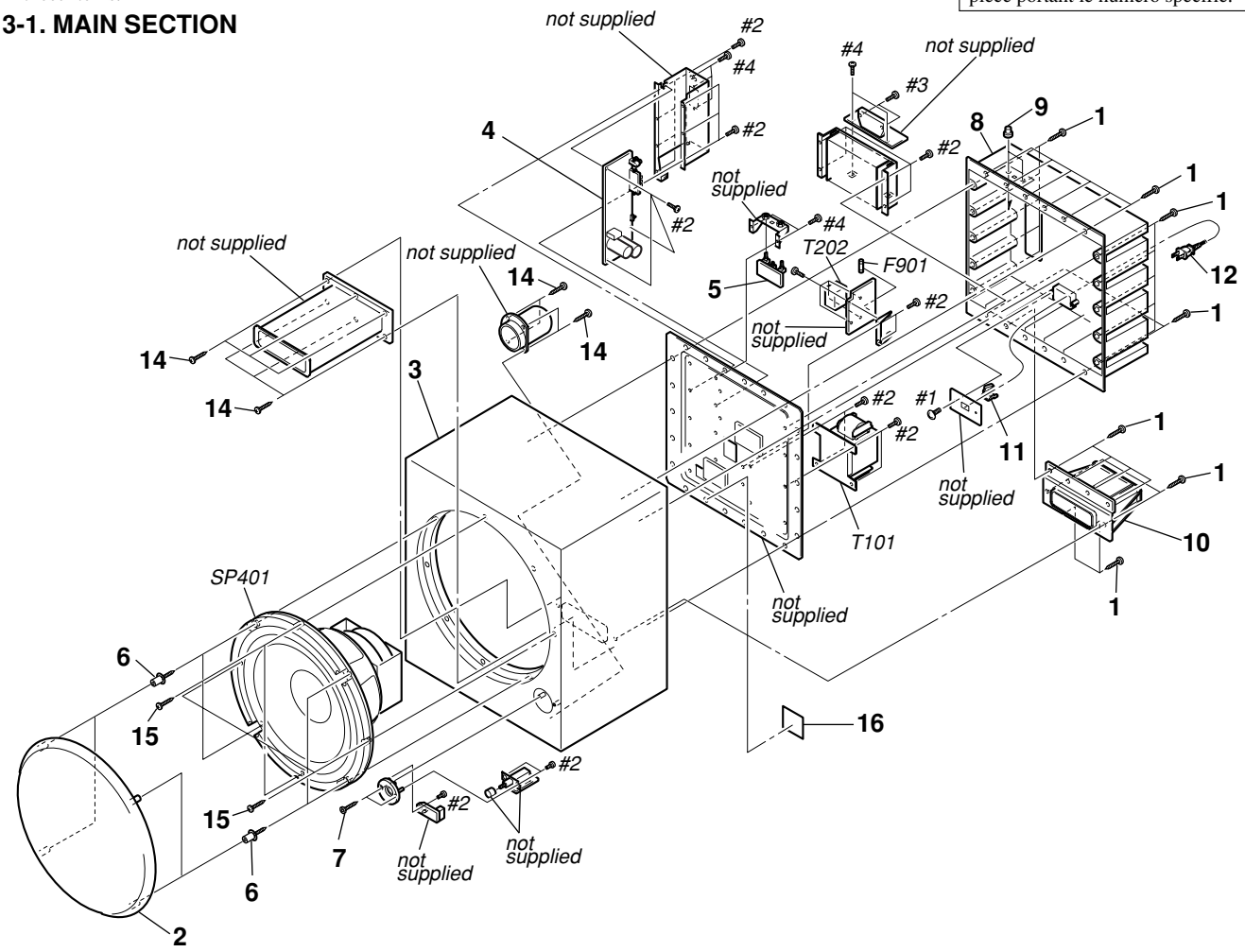
NOTE :

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Color indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) … (RED)
  ↑ ↑
  Parts color Cabinet's color
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  CND : Canadian model
  MY : Malaysia model
  SP : Singapore model
  AUS : Australian model
  TW : Taiwan model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

3-1. MAIN SECTION



Ref. No.	Part No.	Description	Remark
1	4-235-677-01	SCREW (4X20) (TYPE1), +BVTP	
2	A-4736-352-A	GRILLE (FRAME) ASSY (BLACK)	
2	A-4736-564-A	GRILLE (FRAME) ASSY (WOOD)	
3	A-4736-349-A	SPEAKER (CABINET) ASSY (BLACK)	
3	A-4736-563-A	SPEAKER (CABINET) ASSY (WOOD)	
4	A-4731-771-A	MAIN BOARD, COMPLETE	
5	A-4731-772-A	CONTROL BOARD, COMPLETE	
6	4-229-774-01	SCREW, TAPPING, HEXAGON SOCKET	
7	4-235-903-01	SCREW (3.5X20)	
8	4-228-148-21	COVER, REAR (EXCEPT US,CND)	
8	4-228-148-31	COVER, REAR (US,CND)	
9	4-250-465-01	KNOB (VOL)	
10	4-228-141-01	DUCT (A)	
* 11	3-703-244-00	BUSHING (2104), CORD	
⚠12	1-696-874-11	CORD, POWER (AUS)	
⚠12	1-777-071-13	CORD, POWER (AEP,MY,SP,UK)	
⚠12	1-783-532-11	CORD, POWER (CND,US)	
⚠12	1-783-820-11	CORD, POWER (TW)	

Ref. No.	Part No.	Description	Remark
14	4-874-614-21	SCREW	
15	4-235-677-01	SCREW +BVTP 4X20 (TYPE1)	
* 16	3-703-044-26	LABEL, CAUTION (US,CND)	
⚠F901	1-532-464-31	FUSE (T2.5AL/250V) (AEP,MY,SP,UK,AUS)	
⚠F901	1-532-465-31	FUSE (T3.15AL/250V) (TW)	
⚠F901	1-532-746-11	FUSE, GLASS TUBE (4A/125V) (US,CND)	
SP401	1-825-344-11	SPEAKER (30cm)	
⚠T101	1-439-749-11	POWER TRANSFORMER (AEP,SP,MY,UK,AUS)	
⚠T101	1-439-750-11	POWER TRANSFORMER (US,CND)	
⚠T101	1-443-026-11	POWER TRANSFORMER (TW)	
⚠T202	1-439-706-11	SUB POWER TRANSFORMER (US,CND)	
⚠T202	1-439-707-11	SUB POWER TRANSFORMER (AEP,SP,MY,UK,AUS)	
⚠T202	1-443-027-11	SUB POWER TRANSFORMER (TW)	
#1	7-685-881-09	SCREW +BVTT 4X8 (S)	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#3	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
#4	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

CONTROL | LED | MAIN

SECTION 4
ELECTRICAL PARTS LIST

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE :Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ , for example :
  uA.... : µ A.... , uPA.... : µ PA....
  uPB.... : µ PB.... , uPC.... : µ PC....
  uPD.... : µ PD....
- CAPACITORS
  uF : µ F
- COILS
  uH : µ H
- Abbreviation
  CND : Canadian model
  MY : Malaysia model
  SP : Singapore model
  AUS : Australian model
  TW : Taiwan model

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description				Remark
	A-4731-772-A	CONTROL BOARD, COMPLETE				
		**********				
		< CONNECTOR >				
* BC601	1-564-508-11	PLUG, CONNECTOR 5P				
		< CAPACITOR >				
C601	1-130-495-00	MYLAR	0.1uF	5%	50V	
C602	1-130-495-00	MYLAR	0.1uF	5%	50V	
C603	1-126-963-11	ELECT	4.7uF	20%	50V	
C604	1-130-495-00	MYLAR	0.1uF	5%	50V	
C605	1-130-495-00	MYLAR	0.1uF	5%	50V	
C606	1-126-965-91	ELECT	22uF	20%	50V	
C607	1-126-965-91	ELECT	22uF	20%	50V	
C608	1-126-963-11	ELECT	4.7uF	20%	50V	
		< IC >				
IC601	8-759-943-94	IC BA15218				
IC602	8-759-943-94	IC BA15218				
		< RESISTOR >				
R601	1-249-429-11	CARBON	10K	5%	1/4W	
R602	1-249-441-11	CARBON	100K	5%	1/4W	
R603	1-247-881-00	CARBON	120K	5%	1/4W	
R604	1-249-441-11	CARBON	100K	5%	1/4W	
R605	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R606	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R607	1-247-887-00	CARBON	220K	5%	1/4W	
R608	1-249-429-11	CARBON	10K	5%	1/4W	
R609	1-249-429-11	CARBON	10K	5%	1/4W	
R610	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R611	1-249-429-11	CARBON	10K	5%	1/4W	
R612	1-249-441-11	CARBON	100K	5%	1/4W	
		< VARIABLE RESISTOR >				
RV601	1-227-572-11	RES,VAR	20K (CUTOFF FREQ)			
RV602	1-227-573-11	RES,VAR	10K (LEVEL)			
		< SWITCH >				
S601	1-786-490-11	SWITCH, SLIDE (PHASE)				
**********						

Ref. No.	Part No.	Description				Remark
		LED BOARD				
		*********				
		< CONNECTOR >				
* BC301	1-564-519-11	PLUG, CONNECTOR 4P				
		< DIODE >				
* D302	8-719-064-11	DIODE SPR-325MVW (POWER)				
		< RESISTOR >				
R301	1-249-417-11	CARBON	1K	5%	1/4W	F
R302	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R303	1-249-421-11	CARBON	2.2K	5%	1/4W	F
**********						
	A-4731-771-A	MAIN BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
BC401	1-564-320-00	PIN, CONNECTOR(3.96mm PITCH)2P				
* BC801	1-564-104-00	PIN, CONNECTOR(3.96mm PITCH)3P				
BC802	1-691-767-11	PLUG (MICRO CONNECTOR) 5P				
		< CAPACITOR >				
C401	1-124-257-00	ELECT	2.2uF	20%	50V	
C402	1-126-950-11	ELECT	330uF	20%	35V	
C403	1-126-934-11	ELECT	220uF	20%	10V	
C501	1-124-247-91	ELECT	10uF	20%	35V	
C502	1-102-978-00	CERAMIC	220PF	5%	50V	
C503	1-102-978-00	CERAMIC	220PF	5%	50V	
C520	1-102-978-00	CERAMIC	220PF	5%	50V	
C521	1-102-978-00	CERAMIC	220PF	5%	50V	
C522	1-124-247-91	ELECT	10uF	20%	35V	
C523	1-130-483-00	MYLAR	0.01uF	5%	50V	
C524	1-130-483-00	MYLAR	0.01uF	5%	50V	
C531	1-128-551-11	ELECT	22uF	20%	25V	
C532	1-104-661-91	ELECT	330uF	20%	16V	
C801	1-109-932-13	ELECT(BLOCK)	10000uF	20%	71V	
C802	1-109-932-13	ELECT(BLOCK)	10000uF	20%	71V	
C803	1-130-777-00	MYLAR	0.1uF	10%	100V	
C804	1-130-777-00	MYLAR	0.1uF	10%	100V	
C805	1-104-666-11	ELECT	220uF	20%	25V	
C806	1-104-666-11	ELECT	220uF	20%	25V	
C807	1-126-964-11	ELECT	10uF	20%	50V	
C808	1-126-964-11	ELECT	10uF	20%	50V	
C809	1-124-247-91	ELECT	10uF	20%	35V	
C810	1-124-247-91	ELECT	10uF	20%	35V	

Ref. No.	Part No.	Description				Remark
C811	1-136-165-00	FILM	0.1uF	5%	50V	
C812	1-136-165-00	FILM	0.1uF	5%	50V	
		< DIODE >				
D301	8-719-991-33	DIODE	1SS133T-77			
D400	8-719-991-33	DIODE	1SS133T-77			
D401	8-719-991-33	DIODE	1SS133T-77			
D501	8-719-991-33	DIODE	1SS133T-77			
D502	8-719-991-33	DIODE	1SS133T-77			
D503	8-719-991-33	DIODE	1SS133T-77			
D504	8-719-991-33	DIODE	1SS133T-77			
D505	8-719-991-33	DIODE	1SS133T-77			
D506	8-719-991-33	DIODE	1SS133T-77			
D531	8-719-991-33	DIODE	1SS133T-77			
D532	8-719-991-33	DIODE	1SS133T-77			
D801	8-719-024-99	DIODE	11ES2-NTA2B			
D802	8-719-024-99	DIODE	11ES2-NTA2B			
D803	8-719-024-99	DIODE	11ES2-NTA2B			
D804	8-719-024-99	DIODE	11ES2-NTA2B			
D805	8-719-072-05	DIODE	RBV-602LF-A			
D821	8-719-110-31	DIODE	RD12ESB2			
D822	8-719-110-31	DIODE	RD12ESB2			
		< TERMINAL >				
* G1	1-537-738-21	TERMINAL, EARTH				
		< IC >				
IC501	6-704-502-01	IC	NJM022D			
IC502	6-704-502-01	IC	NJM022D			
IC503	6-704-502-01	IC	NJM022D			
		< JACK >				
J501	1-770-157-21	JACK, PIN 2P (LINE)				
		< TRANSISTOR >				
Q301	8-729-900-63	TRANSISTOR	DTA124ES			
Q302	8-729-900-63	TRANSISTOR	DTA124ES			
Q401	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q402	8-729-178-42	TRANSISTOR	2SC2784-F			
Q403	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q404	8-729-029-86	TRANSISTOR	DTC124ESA			
Q531	8-729-029-86	TRANSISTOR	DTC124ESA			
Q532	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q533	8-729-029-86	TRANSISTOR	DTC124ESA			
Q801	8-729-281-53	TRANSISTOR	2SC1815-GR			
Q802	8-729-201-53	TRANSISTOR	2SA1015-GR			
		< RESISTOR >				
⚠R400	1-215-869-11	METAL OXIDE	1K	5%	1W	
R401	1-249-430-11	CARBON	12K	5%	1/4W	
R402	1-249-438-11	CARBON	56K	5%	1/4W	
R403	1-249-441-11	CARBON	100K	5%	1/4W	
R404	1-249-441-11	CARBON	100K	5%	1/4W	
R405	1-249-433-11	CARBON	22K	5%	1/4W	
R406	1-249-433-11	CARBON	22K	5%	1/4W	
R501	1-249-435-11	CARBON	33K	5%	1/4W	
R502	1-249-435-11	CARBON	33K	5%	1/4W	
R503	1-249-435-11	CARBON	33K	5%	1/4W	
R504	1-249-435-11	CARBON	33K	5%	1/4W	
R505	1-260-107-11	CARBON	4.7K	5%	1/2W	

Ref. No.	Part No.	Description			Remark
R506	1-260-107-11	CARBON	4.7K	5%	1/2W
R507	1-249-417-11	CARBON	1K	5%	1/4W F
R508	1-249-417-11	CARBON	1K	5%	1/4W F
R509	1-249-425-11	CARBON	4.7K	5%	1/4W F
R510	1-249-425-11	CARBON	4.7K	5%	1/4W F
R511	1-249-425-11	CARBON	4.7K	5%	1/4W F
R512	1-249-441-11	CARBON	100K	5%	1/4W
R520	1-249-425-11	CARBON	4.7K	5%	1/4W F
R521	1-249-425-11	CARBON	4.7K	5%	1/4W F
R522	1-249-429-11	CARBON	10K	5%	1/4W
R523	1-249-431-11	CARBON	15K	5%	1/4W
R524	1-249-433-11	CARBON	22K	5%	1/4W
R525	1-249-435-11	CARBON	33K	5%	1/4W
R526	1-249-429-11	CARBON	10K	5%	1/4W
R527	1-249-425-11	CARBON	4.7K	5%	1/4W F
R528	1-249-415-11	CARBON	680	5%	1/4W F
R531	1-247-895-00	CARBON	470K	5%	1/4W
R532	1-247-883-00	CARBON	150K	5%	1/4W
R533	1-247-903-00	CARBON	1M	5%	1/4W
R534	1-249-441-11	CARBON	100K	5%	1/4W
R535	1-249-429-11	CARBON	10K	5%	1/4W
R536	1-249-429-11	CARBON	10K	5%	1/4W
R537	1-249-441-11	CARBON	100K	5%	1/4W
R538	1-247-903-00	CARBON	1M	5%	1/4W
R539	1-249-433-11	CARBON	22K	5%	1/4W
R800	1-249-438-11	CARBON	56K	5%	1/4W
⚠R801	1-212-857-00	FUSIBLE	10	5%	1/4W
⚠R802	1-212-857-00	FUSIBLE	10	5%	1/4W
R803	1-249-421-11	CARBON	2.2K	5%	1/4W F
R804	1-249-421-11	CARBON	2.2K	5%	1/4W F
		< RELAY >			
RY400	1-515-920-11	RELAY (24V)			
		< SWITCH >			
S531	1-786-490-11	SWITCH, SLIDE (POWER SAVE)			
		< TERMINAL >			
TM501	1-537-376-11	TERMINAL BOARD (SPAKER)			

****

POWER AMP BOARD

****

		< CONNECTOR >			
BC701	1-691-590-11	POST (WITH BASE)(B12B-XH-A)12P			
		< CAPACITOR >			
C701	1-102-978-00	CERAMIC	220PF	5%	50V
C702	1-102-978-00	CERAMIC	220PF	5%	50V
C703	1-128-562-11	ELECT	47uF	20%	100V
C704	1-102-936-00	CERAMIC	3.0PF	+-0.25PF	50V
C705	1-126-961-11	ELECT	2.2uF	20%	50V
C706	1-104-666-11	ELECT	220uF	20%	25V
C707	1-128-563-11	ELECT	100uF	20%	100V
C708	1-128-582-11	ELECT	10uF	20%	100V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

POWER AMP | POWER SUPPLY | POWER SWITCH

Ref. No.	Part No.	Description			Remark
C709	1-104-665-11	ELECT	100uF	20%	25V
C710	1-102-824-00	CERAMIC	470PF	5%	50V
C711	1-128-582-11	ELECT	10uF	20%	100V
C712	1-130-777-00	MYLAR	0.1uF	10%	100V
		< DIODE >			
D701	8-719-991-33	DIODE 1SS133T-77			
D702	8-719-991-33	DIODE 1SS133T-77			
D703	8-719-991-33	DIODE 1SS133T-77			
		< FUSE HOLDER >			
F11	1-533-233-11	FUSE HOLDER			
F12	1-533-233-11	FUSE HOLDER			
		< TRANSISTOR >			
Q701	8-729-119-78	TRANSISTOR 2SC2785-HFE			
		< RESISTOR >			
⚠R701	1-234-182-11	ENCAPSULATED COMPONENT			
R702	1-216-110-11	CARBON	8.2K	5%	1/2W
R703	1-216-110-11	CARBON	8.2K	5%	1/2W
R704	1-249-438-11	CARBON	56K	5%	1/4W
R705	1-249-415-11	CARBON	680	5%	1/4W F
R706	1-215-886-11	METAL OXIDE	100	5%	2W
R707	1-249-417-11	CARBON	1K	5%	1/4W F
R708	1-249-438-11	CARBON	56K	5%	1/4W
R709	1-249-433-11	CARBON	22K	5%	1/4W
R710	1-249-417-11	CARBON	1K	5%	1/4W F
R711	1-249-425-11	CARBON	4.7K	5%	1/4W F
⚠R712	1-202-972-61	FUSIBLE	1	5%	1/4W
R713	1-216-357-00	METAL OXIDE	4.7	5%	1W
R714	1-249-399-11	CARBON	33	5%	1/4W
**********					
		POWER SUPPLY BOARD			
		**********			
		< CONNECTOR>			
BC901	1-564-321-00	PIN, CONNECTOR(3.96mm PITCH)2P			
* BC902	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P			
* BC903	1-565-792-11	PIN, CONNECTOR(3.96mm PITCH)2P			
		< CAPACITOR >			
⚠C901	1-113-925-11	CERAMIC	0.01uF	20%	250V
⚠C902	1-113-925-11	CERAMIC	0.01uF	20%	250V
		< DIODE >			
D901	8-719-991-33	DIODE 1SS133T-77			
		< IC >			
IC701	6-600-182-01	IC STK-404-140S			
		<RELAY >			
⚠RY901	1-755-458-11	RELAY			
**********					

Ref. No.	Part No.	Description	Remark
		POWER SWITCH BOARD	
		**********	
		< CONNECTOR>	
* BC302	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P	
		< CAPACITOR >	
⚠C301	1-113-925-11	CERAMIC 0.01uF 20% 250V	
		< SWITCH >	
⚠S301	1-554-920-11	SWITCH, PUSH (AC POWER)(1 KEY) (POWER)	
**********			
		MISCELLANEOUS	
		**********	
⚠12	1-696-874-11	CORD, POWER (AUS)	
⚠12	1-777-071-13	CORD, POWER (AEP,MY,SP,UK)	
⚠12	1-783-532-11	CORD, POWER (US,CND)	
⚠12	1-783-820-11	CORD, POWER (TW)	
⚠F901	1-532-464-31	FUSE (T2.5AL/250V) (AEP,MY,SP,UK,AUS)	
⚠F901	1-532-465-31	FUSE (T3.15AL/250V) (TW)	
⚠F901	1-532-746-11	FUSE, GLASS TUBE (4A/125V) (US,CND)	
SP401	1-825-344-11	SPEAKER (30cm)	
⚠T101	1-443-026-11	POWER TRANSFORMER (TW)	
⚠T101	1-439-749-11	POWER TRANSFORMER (AEP,SP,MY,UK,AUS)	
⚠T101	1-439-750-11	POWER TRANSFORMER (US,CND)	
⚠T202	1-443-027-11	SUB POWER TRANSFORMER (TW)	
⚠T202	1-439-706-11	SUB POWER TRANSFORMER (US,CND)	
⚠T202	1-439-707-11	SUB POWER TRANSFORMER (AEP,SP,MY,UK,AUS)	
**********			
		ACCESSORIES	
		**********	
⚠	1-569-008-12	ADAPTOR, CONVERSION 2P (AUS)	
	1-751-598-53	CORD, CONNECTION (PIN-PIN)	
	1-769-433-23	CORD, SPEAKER	
	4-244-254-11	INSTRUCTION, MANUAL (ENGLISH, FRENCH) (US,CND,UK,AUS)	
	4-244-254-21	INSTRUCTION, MANUAL (ENGLISH, FRENCH,GERMAN,ITALIAN) (AEP)	
	4-244-254-31	INSTRUCTION, MANUAL (SPANISH,DUTCH,SWEDISH,POLISH) (AEP)	
	4-244-254-41	INSTRUCTION, MANUAL(PORTUGUESE, DANISH,FINNISH,RUSSIAN)(AEP)	
	4-244-254-51	INSTRUCTION, MANUAL(ENGLISH,FRENCH, SPANISH,TRADITIONAL CHINESE) (SP,MY,TW)	
	4-981-864-01	FOOT	

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MEMO

REVISION HISTORY

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Ver.	Date	Description of Revision
1.0	2003.03	New
1.1	2003.06	Addition of Australian and Taiwan models. (ENG-03006)
1.2	2004.09	Suffix change of Part No. (Ref. No. 8) and addition of destination. (SPM-04095)